

**Listing of the Claims:**

- 1        1. (Currently amended) A cabinet for enclosing a controller, said controller being
- 2        subject to arcing, which produces arc gasses, said cabinet comprising:
  - 3              a plurality of walls for enclosing said controller;
  - 4              a roof panel connected to said plurality of walls;
  - 5              an exhaust vent for discharging built up gasses generated during an arc fault
  - 6        event;
  - 7              a floor panel connected to said plurality of walls; and
  - 8              a door for accessing said controller and maintaining integrity of said cabinet
  - 9        during said arc fault event.
  - 10          a first member disposed parallel to one of said plurality of walls;
  - 11          a second member connecting said first member to said one of said plurality of
  - 12        walls;
  - 13          a hinge connecting said door to one of said first member, said second member,
  - 14        and said one of said plurality of walls;
  - 15          a channel attached to said door and extending over said hinge, said channel
  - 16        adapted for receiving an edge of said first member, said edge opposite said second
  - 17        member; and
  - 18          a resilient seal disposed between said edge and said channel as said channel is
  - 19        forced toward said edge of said first member due to arc gasses produced during arcing.

1        Claims 2-7 (Canceled)

1       8. (Previously presented) The cabinet of claim 1 further comprising a latching  
2       mechanism for releasably securing said door in a closed position, said latch mechanism  
3       including a plurality of latch hooks and a strike assembly receiving said plurality of latch  
4       hooks such that said door remains sealed during said arcing.

1       9. (Original) The cabinet of claim 1 further comprising:  
2              an opening bounded by a wall edge of one of said plurality of walls;  
3              an access panel having a first surface and a first panel edge with a protruding  
4       member extending toward said wall edge; and  
5              a resilient seal disposed between said first surface of said access panel and said  
6       wall edge.

1       10. (Currently amended) The cabinet of claim 1 further comprising:  
2              an opening bounded by a first edge of one of said plurality of walls and by a  
3       second edge of another one of said plurality of walls;  
4              an access panel having a first surface and a second surface, a first panel edge with  
5       a first protruding member extending toward said first edge, and a second panel edge with  
6       a second protruding member extending toward said second edge,  
7              a first resilient seal disposed between said first surface of said access panel and  
8       said first edge; and  
9              a second resilient seal disposed between said second surface of said access panel  
10      and said second edge.

1       11. (Currently amended) A cabinet for enclosing a controller, said controller being  
2       subject to arcing, which produces arc gasses, said cabinet comprising:

3           a plurality of walls for enclosing said controller;

4           a roof panel connected to said plurality of walls;

5           a floor panel connected to said plurality of walls;

6           an exhaust vent for discharging said arc gasses;

7           a flap covering said exhaust vent, said flap adapted to open and allow said arc

8           gasses to escape;

9           a hinge connecting said flap to said cabinet;

10          a door for accessing said controller;

11          a latching mechanism for releasably securing said door in a closed position, said

12        latch mechanism including a plurality of latch hooks and a strike assembly receiving said

13        plurality of latch hooks such that said door remains sealed during said arcing;

14          a first member disposed parallel to one of said plurality of walls;

15          a second member connecting said first member to said one of said plurality of

16        walls;

17          a hinge connecting said door to one of said first member, said second member,

18        and said one of said plurality of walls;

19          a channel attached to said door and extending over said hinge, said channel

20        adapted for receiving an edge of said first member; and

21          a resilient door seal disposed between said edge and said channel as said channel

22        is forced toward said edge of said first member due to arc gasses produced during arcing.

1     12. (Currently amended) The cabinet of claim 11 further comprising:

2       an opening bounded by a first inwardly turned edge of one of said plurality of  
3       walls and by a second inwardly turned edge of another one of said plurality of walls;

4       an access panel having a first surface and a second surface, a first outwardly  
5       turned panel edge with a first protruding member extending toward said first inwardly  
6       turned edge, and a second outwardly turned panel edge with a second protruding member  
7       extending toward said second inwardly turned edge,

8       a first resilient seal disposed between said first surface of said access panel and  
9       said first inwardly turned edge; and

10       a second resilient seal disposed between said second surface of said access panel  
11       and said second inwardly turned edge.

1       13. (Original) The cabinet of claim 11 further comprising:

2       a first dimple in a first surface selected from one of said roof panel, said floor  
3       panel, one of said plurality of walls, and a structural member; and

4       a second dimple in a second surface selected from one of said roof panel, said  
5       floor panel, one of said plurality of walls, and said structural member, said second dimple  
6       adapted to mate with said first dimple.

1       14. (Original) The cabinet of claim 13 further comprising:

2       a first opening in said first surface being center aligned within said first dimple;  
3       a second opening in said second surface being center aligned within said second  
4       dimple and in register with said first opening when said first dimple is mated with said  
5       second dimple; and

6       a fastener disposed in said first opening and said second opening, said fastener  
7       securely mating said first and second dimples such that said mated dimples provide an  
8       increased shear strength to said fastener.

1 15. (Original) The cabinet of claim 11 further comprising a baffle for isolating a first  
2 volume of said cabinet from a second volume of said cabinet, said baffle connected to at  
3 least two of said plurality of walls.

1 16. (Canceled)

1 17. (Currently amended) A cabinet for enclosing a controller, said controller being  
2 subject to arcing, which produces arc gasses, said cabinet comprising:  
3 a plurality of walls for enclosing said controller;

4 a door for accessing said controller, said door including a latching mechanism for  
5 releasably securing said door in a closed position, said latch mechanism including a  
6 plurality of latch hooks and a strike assembly receiving said plurality of latch hooks such  
7 that said door remains sealed during said arcing;

8 a first member disposed parallel to one of said plurality of walls;

9 a second member connecting said first member to said one of said plurality of  
10 walls;

11 a hinge connecting said door to one of said first member, said second member,  
12 and said one of said plurality of walls;

13 a channel attached to said door and extending over said hinge, said channel  
14 adapted for receiving an edge of said first member; and

15 a resilient door seal disposed in said channel for sealing a gap between said edge  
16 and said channel as said channel is forced toward said edge of said first member due to  
17 arc gasses produced during arcing.

1 Claims 18 and 19 (Canceled)

1 20. (Currently amended) [A cabinet for enclosing a controller, said controller being  
2 subject to arcing, which produces arc gasses, said cabinet comprising:] The cabinet of  
3 claim 17, further comprising:

4 [a plurality of walls for enclosing said controller;]

5 a baffle for isolating a first volume of said cabinet from a second volume of said  
6 cabinet, said baffle connected to at least two of said plurality of walls, said first volume  
7 containing said arc gasses;

8 [a] at least one dimple in at least two of said plurality of walls; and

9 [a] at least two dimples in said baffle, said baffle dimples adapted to mate with  
10 said wall dimples thereby providing a high [sheer] shear strength attachment between said  
11 plurality of walls and said baffle.

1 Claims 21-27 (Canceled)

1 28. (Previously presented) The cabinet of claim 20 further comprising

2 an aperture centrally defined in each of said wall dimples and in each of said  
3 baffle dimples such that said apertures in said wall dimples are in register with said  
4 apertures in said baffle dimples when said wall dimples are mated with said baffle  
5 dimples; and

6 a fastener disposed in said registered apertures of said wall dimples and said baffle  
7 dimples, said mated dimples providing increased shear strength to said fastener securing  
8 said walls to said baffle.

1 29. (Canceled)

1 30. (Currently amended) The cabinet of claim [29] 17 further comprising:

2       an opening bounded by a first inwardly turned edge of one of said plurality of  
3       walls and by a second inwardly turned edge of another one of said plurality of walls;

4           an access panel having a first surface and a second surface, a first outwardly  
5       turned panel edge with a first protruding member extending toward said first inwardly  
6       turned edge, and a second outwardly turned panel edge with a second protruding member  
7       extending toward said second inwardly turned edge,

8           a first resilient seal disposed between said first surface of said access panel and  
9       said first inwardly turned edge; and

10          a second resilient seal disposed between said second surface of said access panel  
11       and said second inwardly turned edge.

1       31. (Currently amended) An arc resistant cabinet for enclosing electrical equipment  
2       subject to arcing faults that produce arc gasses, said cabinet comprising:

3           a plurality of walls for enclosing said electrical equipment;

4           a roof panel connected to said plurality of walls;

5           a floor panel connected to said plurality of walls;

6       an opening bounded by a first inwardly turned edge of one of said plurality of  
7       walls and by a second inwardly turned edge of another one of said plurality of walls;

8           an access panel having a first surface and a second surface, a first outwardly  
9       turned panel edge with a first protruding member extending toward said first inwardly  
10      turned edge, and a second outwardly turned panel edge with a second protruding member  
11      extending toward said second inwardly turned edge,

12          a first resilient seal disposed between said first surface of said access panel and  
13       said first inwardly turned edge; and

14           a second resilient seal disposed between said second surface of said access panel  
15       and said second inwardly turned edge.

1       32. (Currently amended) [An arc resistant cabinet for enclosing electrical equipment  
2       subject to arcing faults that produce arc gasses, said cabinet comprising:] The cabinet of  
3       claim 17, further comprising:

4           a plurality of structural members

5           [a plurality of walls for enclosing said electrical equipment;]

6           a roof panel connected to said plurality of walls;

7           a floor panel connected to said plurality of walls;

8           a plurality of dimples, at least one dimple being defined in each of said plurality of  
9       structural members, said plurality of walls, said roof panel and said floor panel, each of  
10      said plurality of dimples defining a central aperture and being configured for mating with  
11      another of said plurality of dimples such that said central apertures of mated dimples are  
12      generally aligned; and

13           a plurality of fastening devices, one being received in said generally aligned  
14      central apertures of mated dimples, said mated dimples providing increased [sheer] shear  
15      strength between said plurality of structural members, said plurality of walls, said roof  
16      panel and said floor panel of said cabinet.